Fall 2010 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

MA0005	Overall LMA	Total LMA	* Overall I MA	Threshold Perce	nt is less tha	nn		
Sutter Maintenance Yard Maintenance	Rating	Miles	10.00%; hov	10.00%; however, U Rated Miles are present, so				
Area 0005	M *	33.32	the Overall L	.MA Rating is M i	nstead of A.			
						hments		
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	PO Miles	CO Miles		
Vegetation	0.02		0.02	0.06%				
Encroachments	0.10		0.10	0.30%		0.01		
Animal Control	0.03		0.03	0.09%				
Slope Stability	0.01		0.01	0.03%				
Repair Gates	0.01		0.01	0.03%				
USACE Erosion Survey		0.03	0.12	0.36%				
LMA Totals:	0.17	0.03	0.29	0.87% *	0.00	0.01		
Unit No. 01 Butte Creek 1	Overall Unit Rating M *	Total Unit Miles 15.29	10.00%; hov	Threshold Percer vever, U Rated M Unit Rating is M in	iles are pres			
					Encroad	hments		
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	PO Miles	CO Miles		
Vegetation	0.01		0.01	0.07%				
Encroachments	0.04		0.04	0.26%				
Repair Gates	0.01		0.01	0.07%				
USACE Erosion Survey		0.03	0.12	0.78%				
Unit Totals:	0.06	0.03	0.18	1.18% *	0.00	0.00		
Unit No. 02 Butte Creek 1	Overall Unit Rating	Total Unit Miles						
	Α	16.53						
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	PO Miles	chments CO Miles		
Vegetation	0.01		0.01	0.06%				
Encroachments	0.06		0.06	0.36%		0.01		
Animal Control	0.03		0.03	0.18%				
Slope Stability	0.01		0.01	0.06%				
Unit Totals:	0.11	0.00	0.11	0.67%	0.00	0.01		
Unit No. 03 Little Chico Creek Diversion	Overall Unit Rating	Total Unit Miles						
	A	1.50						
						hments		
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	PO Miles	CO Miles		
No Items								
Unit Totals:	0.00	0.00	0.00	0.00%	0.00	0.00		

LMA District Cover Sheet

Fall 2010 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)						
* Overall LMA Rating (Fall Only)			M							
	** Non-receipt of Su	mmer or Winter Inspe	ection Reports may effec	ct overall annual rating.						
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall. FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.										
Comments										

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

	Water	way		Bank	Unit Miles						
Unit No. 01 Butte Creek 1 Left 15.29											
	Winter (December - February)										
Unit Maintenance Rating (Fall Only)			M								
Date of Inspection	3/22/2010		9/21/2010								
DWR Inspector	Bob Duffey		Bob Duffey								
Accompanied By	Jason Cooper Sutter Yard		Jason Cooper Sutter Yard								
	Karen Hull Sutter Yard		Karen Hull Sutter Yard								
	Joel Farias Jr. Sutter Yard		Joel Farias Jr. Sutter Yard								
Check one:											
project components conditions other that deficiencies identified During the current with project components maintenance and the following changes in the comment see	vinter (or summer) inspection p identified in the attached Leve in the results of our normal mai ed in the enclosed report. vinter (or summer) inspection p identified in the attached Leve e corrections we have made to in flood project conditions. ction below or on additional shan in (Land Side, Water Side, or C	e Inspection Report by intenance and the correction, my staff or I have be Inspection Report by a maintenance deficience eet(s), identify change of	Mile. We have found no change tions we have made to maint e inspected the levee and asso Mile. In addition to the results cies identified in the report, we of condition by: Start to End Le	ges in florenance ociated florenance have for have for evee Mile	ood project ood ormal und the						
Comments											
information must also be	3	eet should be signed ar	nd dated by the LMA Represent ch 31 (Winter Inspection). Pleast spection Reports Room LL-30	tative an	d returned to						

X

Signature of LMA Representative

Date

Levee Inspection Report By Mile - Fall 2010

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/03/2010 11/03/2010	Bob Duffey

LMR No	Levee	Mile	Category	Item	Location	Rating	Action/Comment	GPS Latitude/	Longitude	Issue No. Photo
1	0.58		Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.		39.690745 °	903
2	1.56	1.56	Earthen Levee	Encroachments	LS	С	Garbage	39.677235 ° 3	39.677235 ° 21.777687 °	907
3	1.68	1.68	Earthen Levee	Encroachments	LS	М	Debris	39.675528 ° 3 -121.778642 ° -12	39.675528 ° 21.778642 °	1 Y
4	1.85	1.85	Earthen Levee	Slope Stability	LS	С	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.673855 ° 3 -121.779992 ° -12	39.673855 ° 21.779992 °	908
5	2.13	2.13	Earthen Levee	Repair Gates	CR	М		39.670112 ° 3 -121.782012 ° -12	39.670112 ° 21.782012 °	10
6	2.29	2.29	Earthen Levee	Slope Stability	LS	С	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.667917° 3 -121.782742° -12	39.667917 ° 21.782742 °	904
7	2.86	2.86	Earthen Levee	Encroachments	LS	M	Prunings	39.660124 ° 3 -121.785136 ° -12	39.660124 ° 21.785136 °	2
8	2.87	2.87	Earthen Levee	Animal Control	LS	С	Exterminate rodents and backfill and compact or grout burrows.	39.660112 ° 3 -121.785368 ° -12	39.660112 ° 21.785368 °	909
9	3.12	3.12	Earthen Levee	Encroachments	LS	М	Prunings	39.656779° 3 -121.787127° -12	39.656779 ° 21.787127 °	3
10	3.13	3.13	Earthen Levee	Animal Control	LS	С	Exterminate rodents and backfill and compact or grout burrows.	39.656782 ° 3 -121.787265 ° -12	39.656782 ° 21.787265 °	910
11	3.26	3.26	Earthen Levee	Animal Control	LS	С	Exterminate rodents and backfill and compact or grout burrows.	39.654908 ° 3 -121.788002 ° -12	39.654908 ° 21.788002 °	911
12	3.27	3.27	Earthen Levee	Encroachments	LS	M	Prunings	39.654847 ° 3	39.654847 ° 21.787893 °	4
13	3.48	3.48	Earthen Levee	Encroachments	LS	С	Prunings	39.652020 ° 3 -121.789337 ° -12	39.652020 ° 21.789337 °	905
14	9.66	9.69	Supplemental	USACE Erosion Survey	WS	U	Inspector Comments: 2009: no berm, vertical slope, no stability issues, sands and silts, 3.5 ft/s plus eddy currents [2009 SiteID:BTC_9-6_L]	39.574908° (-121.807800° -12	39.574875 ° 21.808108 °	7 Y

* Location

LS : Land Side

WS : Water Side

CR : Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated

Levee Inspection Report By Mile - Fall 2010

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	11/03/2010 11/03/2010	Bob Duffey

3		
1.68		
1.68		
Land Side		
Earthen Levee		
Encroachments		
bage but construction		

rduffey_f_20101115_302.jpg

Levee Mile Report Line	14
Start Levee Mile	9.66
End Levee Mile	9.69
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

2009: no berm, vertical slope, no stability issues, sands and silts, 3.5 ft/s plus eddy currents [2009 SiteID:BTC_9-6_L]

rduffey_f_20100921_015.JPG





Unit Cover Sheet

Fall 2010 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

	Water	way		Bank	Unit Miles						
	Right	16.53									
	Spring (March - May)	Summer (June - August)	(September - November) Fall		Winter ber - February)						
Unit Maintenance Rating (Fall Only)			Α								
Date of Inspection											
DWR Inspector	DWR Inspector Bob Duffey Bob Duffey										
Accompanied By	Jason Cooper Sutter Yard		Jason Cooper Sutter Yard								
	Karen Hull Sutter Yard		Karen Hull Sutter Yard								
	Joel Farias Jr. Sutter Yard		Joel Farias Jr. Sutter Yard								
Check one:											
During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report. During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions. (In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition). Comments One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to: DWR Summer/Winter Inspection Reports 3310 El Camino Avenue, Room LL-30 Sacramento, CA 95821-9000											
x											
Signature of LMA Repres	sentative		Date								

Levee Inspection Report By Mile - Fall 2010

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/03/2010 11/03/2010	Bob Duffey

LMR No	Levee	e Mile End	Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude	Issue No. Photo
1			Earthen Levee	Animal Control	LS	М	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	39.538617 ° 39.538617 ° -121.851862 ° -121.851862 °	9
2	2.46	2.46	Earthen Levee	Animal Control	WS	С	Exterminate rodents and backfill and compact or grout burrows.	39.543463 ° 39.543463 ° -121.847261 °	1
3	4.86	4.86	Earthen Levee	Animal Control	LS	М	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	39.570017 ° 39.570017 ° -121.819527 ° -121.819527 °	
4	7.38	7.38	Earthen Levee	Encroachments	LS	М	Prunings	39.599607 ° 39.599607 ° -121.793848 ° -121.793848 °	11
5	7.86	7.86	Earthen Levee	Encroachments	LS	М	Prunings	39.605265 ° 39.605265 ° -121.788388 ° -121.788388 °	2 Y
6	10.54	10.54	Earthen Levee	Encroachments	LS	М	Prunings	39.639018 ° 39.639018 ° -121.781458 ° -121.781458 °	3
7	10.61	10.61	Earthen Levee	Encroachments	LS	М	Equipment	39.639967 ° 39.639967 ° -121.782152 ° -121.782152 °	14
8	10.81	10.81	Earthen Levee	Slope Stability	LS	М	Repair the levee slope damaged by foot traffic and prevent access where possible.	39.642447 ° 39.642447 ° -121.784105 ° -121.784105 °	16
9	11.22	11.22	Earthen Levee	Vegetation	LS	М	Elderberries are blocking visibility and flood fight capability.	39.647400 ° 39.647400 ° -121.787825 ° -121.787825 °	26
10	11.83	11.83	Earthen Levee	Animal Control	CR	С	Exterminate rodents and backfill and compact or grout burrows.	39.655553 ° 39.655553 ° -121.789138 °	27
11	12.54	12.54	Earthen Levee	Animal Control	WS	С	Exterminate rodents and backfill and compact or grout burrows.	39.665008 ° 39.665008 ° -121.785058 ° -121.785058 °	18
12	13.13	13.13	Earthen Levee	Animal Control	LS	С	Exterminate rodents and backfill and compact or grout burrows.	39.672436 ° 39.672436 ° -121.781450 ° -121.781450 °	4
13	13.23	13.23	Earthen Levee	Encroachments	LS	М	Equipment	39.673956 ° 39.673956 ° -121.781278 ° -121.781278 °	5
14	13.35	13.35	Earthen Levee	Encroachments	LS	М	Prunings	39.675379 ° 39.675379 ° -121.780309 °	6 Y
15	14.54	14.54	Earthen Levee	Encroachments	LS	СО	Buildings	39.691432 ° 39.691432 ° -121.778933 ° -121.778933 °	25
16	15.96	15.96	Earthen Levee	Animal Control	LS	М	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	39.711222 ° 39.711222 ° -121.778188 ° -121.778188 °	12
17	15.98	16.07	Earthen Levee	Animal Control	LS	С	Exterminate rodents and backfill and compact or grout burrows.	39.711337 ° 39.711767 ° -121.778350 ° -121.779948 °	20

* Location LS: Land Side WS: Water Side CR: Crown ** Rating

A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated

Levee Inspection Report By Mile - Fall 2010

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	11/03/2010 11/03/2010	Bob Duffey

Levee Mile Report Line	3
Start Levee Mile	4.86
End Levee Mile	4.86
Location	Land Side
Category	Earthen Levee
Item	Animal Control
View of the squirrel hole	on the slope.
rduffey_f_20101115_297.jpg	

Levee Mile Report Line	5			
Start Levee Mile	7.86			
End Levee Mile	7.86			
Location	Land Side			
Category	Earthen Levee			
Item	Encroachments			
View of the debris and garbage along the landside toe of the levee.				

rduffey_f_20101115_298.jpg

14
13.35
13.35
Land Side
Earthen Levee
Encroachments
bage along the toe.







* Location

LS : Land Side

WS : Water Side

CR : Crown

rduffey_f_20101115_299.jpg

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

	Bank	Unit Miles					
	Unit No. 03 Little Chic	o Creek Diversion 1		Left	1.50		
	Spring Summer (September - November) (March - May) (June - August) Fall						
Unit Maintenance Rating (Fall Only)			Α				
Date of Inspection	3/22/2010		9/21/2010				
DWR Inspector	Bob Duffey		Bob Duffey				
Accompanied By	Jason Cooper Sutter Yard		Jason Cooper Sutter Yard				
	vinter (or summer) inspection p						
conditions other that deficiencies identified During the current was project components maintenance and the following changes in the comment see the comment see the comment see the conditions of the co	n the results of our normal maded in the enclosed report. winter (or summer) inspection purities in the attached Levele corrections we have made to a flood project conditions. ction below or on additional short (Land Side, Water Side, or Control of the source of the	period, my staff or I have bee Inspection Report by to maintenance deficience eet(s), identify change of	e inspected the levee and asso Mile. In addition to the results cies identified in the report, we	enance ociated fl of our no have fou	ood ormal und the		
Comments	Comments						
information must also be	3	eet should be signed an	d dated by the LMA Represen th 31 (Winter Inspection). Plea spection Reports , Room LL-30	tative an	d returned to		
x							

Date

Signature of LMA Representative

Levee Inspection Report By Mile - Fall 2010

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Little Chico Creek Diversion 1	Left	1.50	11/03/2010 11/03/2010	Bob Duffey

LMR	Levee	Mile	Category	Item	Loca	Rati	Action/Comment	GPS Latitud	Issue No.	
No.	Start	End	Category	item	ation *	ng	Action/Comment	Start	End	Photo
1	0.71	0.71	Earthen Levee	Crown Surface / Depressions / Rutting	CR	Α	Keep the crown roadway free of vegetation.	39.726058 ° 121.781487 °	39.726058 ° -121.781487 °	

* Location

LS: Land Side

WS: Water Side

CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated

Levee Inspection Report By Mile - Fall 2010

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Little Chico Creek Diversion 1	Left	1.50	11/03/2010 11/03/2010	Bob Duffey

1
0.71
0.71
Crown
Earthen Levee
Crown Surface / Depressions / Rutting
lear of vegetation.

